AEE/SSD/SBR/000114 dt 25/05/18

First/Part/Final

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For other words)

Date: .....

Division :DASARAHALLI DIVISION

bill received no .....dated... ... Sub division.....

Book voucher No.....

Dated.....Scheduled Docket No.....

Head of Account.....

Name of work (as per Sanctioned Estimate.) **Providing and Improvments Drinking Water Facilities In Ward No.13 Mallasandra.**

Name of contractor and full address: **M/S KRIDL**

Reference to Agreement No. EE/DD/WO/ 127 /17-18, Dated: 18/12 /2017

Certified that the measurements were taken by me on....18/01/18.....and recorded in pages **63101-63158**

Measurements Book No . **632/2017-18** And that the work is satisfaction executed.

Officer-in-charge of work.

Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Certified that the measurements were taken by me on.....and found correct. The work is satisfactorily executed Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

If Memorandum of payment **Work Code No. 013-18-000061**

		AMOUNT
1.	Total value of work done or Supplies made as per account. 1st and Final Bill →	9922236=00
2.	Deduct amount to be held in reserve being .....percent Rs.....	
3.	Deduct amount to be held in reserve being balance IT →	198445=00
4.	Deduct payments: ESD →	496112=00
	a) Amount of previous payment as in the office cash book voucher No.....Dated.....S.D.No..... Amount adjusted towards cash advance recovery of LWC →	99222=00
	b) Payment cost store or other materials supplied. LP →	38553=00
	Total.....	842254=00
5.	Balance being unpaid value of work done held in reserve	
6.	Deduct cash advance made on the office cash book vehicle No..... Dated.....less adjustments. CBF →	9922=00
7.	Net amount due to or from contractor unadjusted items	
8.	Advance to contractor for materials brought to site (as detailed) Within value of Government materials supplied.	
	Total amount adjusted:	9079982=00

Contractor signature.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Received Rs..... (In words)

.....

.....by cash and by adjustment of

Payment as per memorandum.
(In final settlement of all demand)

Witness:
1.
2.

Date:
Paid by me by cheque No.....Dated.....
Cash Rs.....dated.....
Initials of officer making payment dated.....

EXECUTIVE ENGINEER
KRIDL, BBMP DIVISION
BENGALURU-560 010

Contractor Signature.

(for use in the office)

Audited and admitted for Rs. 9922236=00

Passed by Cl.....

9079982=00

842254=00

Executive Engineer

Asst. Engineer

Accounts Superintendent
B.B.M.P. Dasarahalli Division

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Sl. No.	Description	Unit	Previous Measurement	
			Qty	Cost
1	2	3	4	5
	PART-1			
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications.specification No. KBS 2.1(b)/2.3.5	Cum	-	-
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	-	-
3	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	-	-
4	KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13)	Cum	-	-
5	SRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6	Cum	-	-
6	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification, No. KBS 2.9	Cum	-	-
7	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications, specification. No. KBS 2.9.9/2.9.10.1/2.1.1	Cum	-	-
8	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications,specification No. KBS 4.1, 4.6	Cum	-	-
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	-	-
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2	Sqm	-	-
11	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
12	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2	Sqm	-	-
13	KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
14	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500	Tonnes	-	-
16	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.54.(Page No. 25, It No. 5.26.1 of KPWD S.R 2016-17)	Sqm	-	-
17	KSRB 5-15: Providing and constructing non load bearing wall with solid Sqm concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4.(Page No. 25, It No. 5.28 of KPWD S.R 2016-17)	Sqm	-	-

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Present Measurement			Total Up-to-date		Remarks
Qty	Rate	Cost	Qty	Cost	
6	7	8	9	10	11
105.50	405.64	42795.02	105.50	42795.02	
15.42	5449.68	84058.59	15.42	84058.58916	
17.90	4521.96	80961.17	17.90	80961.17184	
6.19	5405.40	33470.24	6.19	33470.2368	
15.49	6718.68	104085.79	15.49	104085.7906	
52.75	137.16	7235.49	52.75	7235.49	
33.58	274.32	9212.49	33.58	9212.48856	
12.15	6876.36	83564.96	12.15	83564.9649	
2.90	5876.28	17011.83	2.90	17011.8306	
25.92	249.48	6466.52	25.92	6466.5216	
52.64	395.28	20807.54	52.64	20807.5392	
43.55	338.04	14721.61	43.55	14721.642	
6.05	732.24	4428.59	6.05	4428.58752	
62.20	276.48	17197.06	62.20	17197.056	
3.87	65455.56	253328.07	3.87	253328.072	
76.62	1011.96	77536.38	76.62	77536.3752	
26.46	773.28	20460.99	26.46	20460.9888	

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18	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7.107 7.12	Sqm	-	-
19	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.10.6/7.12	M	-	-
20	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	Sqm	-	-
21	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification	Sqm	-	-
22	KSRB 15-3-13 : Providing 12mm thick cement piaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	Sqm	-	-
23	KSRB 7.15 : Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1 mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m» double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36. 5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto G.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, raw! plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz.,	Sqm	-	-
24	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following, aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness . 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top . section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91 x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11 mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred corners grinded, the shutters pivoted opening arrangement with heavy duty aiuminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for n on-ad h era nee of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs orteakwood gutties to R.C.C. columns or	Sqm	-	-
25	Providing and fixing Special make glazed Vitrified tiles (Granomite Sqm finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour etc., completeas per specification.	Sqm	-	-
26	KSRB 14-17.2 : Providing skirting, dadoing, rises of steps with colour glazed tiles 15x15cmc 6mm on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16,14.17	Sqm	-	-
27	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	Sqm	-	-
28	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - (a) 100% for fresh surface (b) Upto 10 % for repainting	Sqm	-	-
29	KSRB 15-15.1 : Providing and applying painting with primer in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	-	-
30	KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications.	Sqm	-	-
31	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges (Item No.15.105, Page No.125, SR: 2016-17)	Sqm	-	-
32	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.73 of KPWD S.R 2016-17)	Sqm	-	-
33	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.74 of KPWD S.R 2016-17)	Sqm	-	-
34	KSRB 8.6-7: Providing and fixing on wail surface 4.0 kg I sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.	M	-	-

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12.48	3090.96	38575.[illegible]	12.48	38575.[illegible]	
4.80	510.84	2452.0[illegible]	4.80	2452.0[illegible]	
162.14	252.72	40976.0[illegible]	162.14	40976.0[illegible]	
81.72	263.52	21534.85	81.72	21534.8544	
39.93	208.44	8323.0[illegible]	39.93	8323.00[illegible]	
22.40	3566.16	79881.98	22.40	79881.984	
4.20	6814.80	28622.[illegible]	4.20	28622.[illegible]	
30.53	1285.20	39237.[illegible]	30.53	39237.[illegible]	
3.99	1157.76	4619.[illegible]	3.99	4619.[illegible]	
121.65	27.00	3284.[illegible]	121.65	3284.[illegible]	
121.65	60.84	7401.[illegible]	121.65	7401.[illegible]	
121.65	97.20	11824.[illegible]	121.65	11824.[illegible]	
121.65	4.32	525.[illegible]	121.65	525.[illegible]	
162.14	375.84	60938.[illegible]	162.14	60938.[illegible]	
28.80	31.32	902.[illegible]	28.80	902.[illegible]	
28.80	88.56	2550.[illegible]	28.80	2550.[illegible]	
32.00	613.44	19630.[illegible]	32.00	19630.[illegible]	

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35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per spedfications.(For1000 litre capacity) Specification No KBS 13.22	No	-	-
36	Supply of water purification unit , installation and commissioning 1000LPH with Chloride Plant with mild steel vessel without UV	No	-	-
37	Additional price for installation of Ultra Voilet System	No	-	-
38	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of	M	- - - -	- - - -
39	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick(P.No-2 ,I No-1.2.1 of PWD S.R 2014-15)	Rmtr	-	-
40	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of (,I No-2.5 of PWD S.R 2014-15)	Rmtr	- - -	- - -
41	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block. complete for each outlet.(5/2.3)(,I No-	Each Point	- - -	- - -
42	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.. Is 3854 and IS 1293. (16/3.7) (Page No - 16, I No-3.7of PWD S.R 2014-15)	No	- - - -	- - - -
43	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer(I No-3.7, Page no. 16 of PWD S.R 2014-15)	Each	-	-
44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP(I No-6.2, Page no. 54 of PWD S.R 2014-15)	Each	-	-
45	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (I No-7.1, Page no. 55 of PWD S.R 2014-15)	Each	-	-
46	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.1) 16Amps(I No-6.7, Page no. 44 of PWD S.R 2014-15)	Each	-	-
47	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on230 Volts A C Supply including 1No 4'-36/40 Watts fluorescent tube. c) Group 'C' KPWD SR (Ele) 2010-11	Each	-	-
48	SHORT POLES: (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm diat 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonary patch work etc., complete as per approved drawing (for single phase installations)	Each	-	-
49	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above.(Page No.56 item No.5 a)Single Phase using 2 Wire e) 16 Sqmm	Rmtr	-	-
	PART-2		-	-
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications,specification No. KBS 2.1(b)/2:3.5	Cum	-	-
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	-	-
3	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	-	-
4	KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masoniy in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13)	Cum	-	-
5	SRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1.4.6	Cum	-	-

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4	9144.36	36577.44	4.00	36577.44	
2	615000.00	1230000.00	2.00	1230000	
2	10000.00	20000.00	2.00	20000	
90.00	226.80	20412.00	90.00	20412	
90.00	270.00	24300.00	90.00	24300	
80.00	334.80	26784.00	80.00	26784	
80.00	43.00	3440.00	80.00	3440	
200.00	13.00	2600.00	200.00	2600	
140.00	29.20	4088.00	140.00	4088	
60.00	42.10	2526.00	60.00	2526	
8	144.00	1152.00	8.00	1152	
4	215.00	860.00	4.00	860	
2	334.00	668.00	2.00	668	
4	63.00	252.00	4.00	252	
4	95.00	380.00	4.00	380	
6	114.00	684.00	6.00	684	
6	147.00	882.00	6.00	882	
12	447.00	5364.00	12.00	5364	
4	418.00	1672.00	4.00	1672	
4	2727.00	10908.00	4.00	10908	
2	120.00	240.00	2.00	240	
10	340.00	3400.00	10.00	3400	
2	525.00	1050.00	2.00	1050	
60.00	85.00	5100.00	60.00	5100	
		2651960.33		2651960.33	
52.75	405.64	21397.30	52.75	21397.30	
7.71	5449.68	42029.29	7.71	42029.29458	
8.95	4521.96	40480.59	8.95	40480.58592	
3.10	5405.40	16735.12	3.10	16735.1184	
7.75	6718.68	52042.90	7.75	52042.89528	

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6	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9	Cum	-	-
7	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications, specification. No. KBS 2.9.9/2.9.10.1/2.1.1	Cum	-	-
8	KSRB 4 2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications,specification No. KBS 4.1, 4.6	Cum	-	-
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	-	-
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2	Sqm	-	-
11	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
12	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2	Sqm	-	-
13	KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
14	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	-	-
15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500	Tonnes	-	-
16	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.54.(Page No. 25, It No. 5.26.1 of KPWD S.R 2016-17)	Sqm	-	-
17	KSRB 5-15: Providing and constructing non load bearing wall with solid Sqm concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4.(Page No. 25, It No. 5.28 of KPWD S.R 2016-17)	Sqm	-	-
18	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7:107 7.12	Sqm	-	-
19	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting , materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.10.6/7.12	M	-	-
20	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	Sqm	-	-
21	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification	Sqm	-	-
22	KSRB 15-3-13 : Providing 12mm thick cement piaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	Sqm	-	-
23	KSRB 7.15 : Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1 mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m» double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36. 5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto G.9m height, spacing of vertical member not exceeding 0.6 m. c to c, sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, raw! plugs and teak wood gutties to R.C.C columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz.,	Sqm	-	-

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26.38	137.16	3618.00	26.38	3618.0996	3618=00
16.79	274.32	4606.80	16.79	4606.8242	
6.08	6876.36	41782.48	6.08	41782.48245	41808=00 41808=00
1.45	5876.28	8505.92	1.45	8505.9153	8521=00 8521=00
12.96	249.48	3233.60	12.96	3233.6508	
26.32	395.28	10403.00	26.32	10403.0766	
21.78	338.04	7360.82	21.78	7360.821	7362=00 7362=00
3.02	732.24	2214.29	3.02	2214.29376	12400 2211=00
31.10	276.48	8598.50	31.10	8598.628	
1.94	65455.56	126664.04	1.94	126664.036	126984=00 126984=00
38.31	1011.96	38768.10	38.31	38768.1976	
13.23	773.28	10230.40	13.23	10230.4944	
6.24	3090.96	19287.60	6.24	19287.504	
2.40	510.84	1226.00	2.40	1226.016	
81.07	252.72	20488.00	81.07	20488.015	
40.86	263.52	10767.40	40.86	10767.936	
19.97	208.44	4161.50	19.97	4161.906	
11.20	3566.16	39940.00	11.20	39940.992	

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24	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following, aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness . 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top . section 47.62x44.45mm thickness 3.00mm, section weight 2.646kg/m, door central section 49.91 x44.45mm section 114.3x44.45 thickness 3.18mm, section weight 1.495 kg/m glazing clips 19x17.3x11 mm thickness 0.9mm section thickness 3.00mm, section weight 0.124kg/m; aluminium sections cut to length joint meitred corners grinded, the shutters pivoted opening arrangement with heavy duty aiuminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel, aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for n on-ad h era nee of mortars or any other sticky materials, the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs orteakwood gutties to R.C.C. columns or	Sqm	-	-
25	Providing and fixing Special make glazed Vitrified tiles (Granomite Sqm finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour etc., completeas per specification.	Sqm	-	-
26	KSRB 14-17.2 : Providing skirting, dadoing, rises of steps with colour glazed tiles 15x15cmc 6mm on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16,14.17	Sqm	-	-
27	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	Sqm	-	-
28	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - (a) 100% for fresh surface (b) Upto 10 % for repainting	Sqm	-	-
29	KSRB 15-15.1 : Providing and applying painting with primer in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	-	-
30	KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications.	Sqm	-	-
31	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges (Item No.15.105, Page No.125, SR: 2016-17)	Sqm	-	-
32	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.73 of KPWD S.R 2016-17)	Sqm	-	-
33	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.(P.No- 121,It. No-15.74 of KPWD S.R 2016-17)	Sqm	-	-
34	KSRB 8.6-7: Providing and fixing on wall surface 4.0 kg I sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.	M	-	-
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per spedfications.(For1000 litre capacity) Specification No.KBS 13.22	No	-	-
36	Supply of water purification unit , installation and commissioning 1000LPH with Chloride Plant with mild steel vessel without UV	No	-	-
37	Additional price for installation of Ultra Voilet System	No	-	-
38	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of	M	- - - -	- - - -
39	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick(P.No-2 ,I No-1.2.1 of PWD S.R 2014-15)	Rmtr	-	-
40	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of (,I No-2.5 of PWD S.R 2014-15)	Rmtr	- - -	- - -
41	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block, complete for each outlet.(5/2.3)(,I No-	Each Point	- - -	- - -
42	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.. Is 3854 and IS 1293. (16/3.7) (Page No - 16, I No-3.7of PWD S.R 2014-15)	No	- - - -	- - - -
43	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer(I No-3.7, Page no. 16 of PWD S.R 2014-15)	Each	-	-

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2.10	6814.80	14311.00	2.10	14311.00	
15.27	1285.20	19618.58	15.27	19618.578	
2.00	1157.70	2309.00	2.00	2309.00	
60.83	27.00	1642.00	60.83	1642.00	
60.83	60.48	3678.00	60.83	3678.00	
60.83	97.20	5912.00	60.83	5912.00	
60.83	4.32	262.00	60.83	262.00	
81.07	375.84	30469.00	81.07	30469.00	
14.40	31.32	451.00	14.40	451.00	
14.40	88.56	1275.00	14.40	1275.00	
16.00	613.44	9815.00	16.00	9815.00	
2	9144.36	18288.00	2.00	18288.00	
1	615000.00	615000.00	1.00	615000	
1	10000.00	10000.00	1.00	10000	
45.00	226.80	10206.00	45.00	10206	
45.00	270.00	12150.00	45.00	12150	
40.00	334.80	13392.00	40.00	13392	
40.00	43.00	1720.00	40.00	1720	
100.00	13.00	1300.00	100.00	1300	
70.00	29.20	2044.00	70.00	2044	
30.00	42.10	1263.00	30.00	1263	
4	144.00	576.00	4.00	576	
2	215.00	430.00	2.00	430	
1	334.00	334.00	1.00	334	
2	63.00	126.00	2.00	126	
2	95.00	190.00	2.00	190	
3	114.00	342.00	3.00	342	
3	147.00	441.00	3.00	441	
6	447.00	2682.00	6.00	2682	

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44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP(I No-6.2, Page no. 54 of PWD S R 2014-15)	Each	-	-
45	Supplying, fixing, wiring, earth electrode for grounding conduits, I C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc , is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (I No-7.1, Page no. 55 of PWD S.R 2014-15)	Each	-	-
46	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.1) 16Amps(I No-6.7, Page no. 44 of PWD S R 2014-15)	Each	-	-
47	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on230 Volts A C Supply including 1No 4'-36/40 Watts fluorescent tube. c) Group 'C' KPWD SR (Ele) 2010-11	Each	-	-
48	SHORT POLES (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm diat 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonary patch work etc., complete as per approved drawing (for single phase installations)	Each	-	-
49	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above (Page No.56 item No.5 a)Single Phase using 2 Wire e) 16 Sqmm	Rmtr	-	-
	PART-3		-	-
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)	No.s	-	-
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budem upto 20 m fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)	Mtr	-	-
	0.00 to 50.00 Mtr.		-	-
	50.00 to 100.00 Mtr.		-	-
	100.00 to 150.00 Mtr.		-	-
	150.00 to 200.00 Mtr.		-	-
	200.00 to 250.00 Mtr.		-	-
	250.00 to 300.00 Mtr.		-	-
	300.00 to 350.00 Mtr.		-	-
3	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)	Mtr	-	-
4	Providing and fixing 250mm dia PVC pipe and as per specification and directions. (BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11)	Each	-	-
5	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)	Each	-	-
6	supply of 175mm M.S. collars each (P.NO-III, I.NO-86, PRED 12-13 SR)	Each	-	-
7	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible	set	-	-
8	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (PWD SR 2014 15, P.No.XVII Sl.no. 50ii)	Rmtr	-	-
9	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), Group A BWSSB 13-14 SR)	Mtr	-	-

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2	418.00	836.00	2.00	836	
2	2727.00	5454.00	2.00	5454	
1	120.00	120.00	1.00	120	
5	340.00	1700.00	5.00	1700	
1	525.00	525.00	1.00	525	
30.00	85.00	2550.00	30.00	2550	
		1325958.15		1325958.148	
		1326343=00		1326343=00	
4	2032.56	8130.24	4	8130.24	
200.00	330.48	66096.00	200.00	66096.00	
200.00	432.00	86400.00	200.00	86400.00	
200.00	480.60	96120.00	200.00	96120.00	
200.00	507.60	101520.00	200.00	101520.00	
200.00	587.52	117504.00	200.00	117504.00	
200.00	629.64	125928.00	200.00	125928.00	
183.50	780.00	143130.00	183.50	143130.00	
180.00	1325	238500.00	180.00	238500.00	
36	1133	40788.00	36.00	40788.00	
4	100	400.00	4.00	400.00	
160	150	24000.00	160.00	24000.00	
4	69334.6	277338.40	4.00	277338.40	
1000.00	340.26	340260.00	1000.00	340260.00	
2032.00	164.285	333827.12	2032.00	333827.00	

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10	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph. 50Hz, 380/440 volts. AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph. 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	no	-	-
11	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	Sqm Cm	-	-
12	Providing & Fixing of clamps set and borewell cap to the pump (MR)	No's	-	-
13	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR-2015-16, P.NO.XXIII, Sl.no, 659)	No's	-	-
14	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR-2015-16, P.NO.XXIII, Sl.no, 673)	No's	-	-
15	Providing and fixing of 50mm GI Shortbend to motor (PWD SR-2014-15, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)	No's	-	-
16	Providing and fixing of 50mm GI union to the motor (PWD SR-2014-15, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)	No's	-	-
17	suppling & fixing of 50mm GI Elbow PWD SR 15-16 XXXIX	No's	-	-
18	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per length	-	-
19	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc, Complete for basement out door type. (MR)	No's	-	-
20	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's	-	-
21	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr	-	-
22	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)	Mtr	-	-
23	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr	-	-
24	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	No's	-	-
25	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	No's	-	-
26	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's	-	-
27	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 94, I.NO - 13.79.6, PWD SR-2015-16)	No's	-	-
28	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No's	-	-
29	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No. 138, Item No.18.48,PW,P & IWTD SR 2016-17)	Cum	-	-
30	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR-2016-17)	Cum	-	-
31	KSRB 13-8.1 : Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq.cm working pressure 50 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 /13.9 for internal water supply connection(P.NO - 93, I.NO -13.70.2, PWD SR-2016-17)	Mtr	-	-
32	KSRB13-3.1: Providing and fixing in trenches galvanised I mild steel tubes (medium grade) 15mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 /13.6 (P.NO - 90, I.NO -13.11, PWD SR-2016-17)	Mtr	-	-
33	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR-2016-17)	Cum	-	-
34	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(Page No. 12, Item No.4.3,PW,P & IWTD SR 2016-17)	Cum	-	-

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4	14800	59200.00	4.00	59200.00	
88000.00	0.34	29920.00	88000.00	29920.00	
4	690	2760.00	4.00	2760.00	
8	1213.7	9709.60	8.00	9709.60	
8	1696	13568.00	8.00	13568.00	
8	232.14	1857.00	8.00	1857.00	
8	237.12	1896.98	8.00	1896.98	
4	111.80	447.00	4.00	447.00	
232.00	90.64	21028.00	232.00	21028.00	
4	475	1900.00	4.00	1900.00	
4	906.4	3625.60	4.00	3625.60	
480.00	169.95	81576.00	480.00	81576.00	
480.00	56.65	27192.00	480.00	27192.00	
12.00	249.26	2991.00	12.00	2991.00	
4	1699.5	6798.00	4.00	6798.00	
4	271.92	1088.00	4.00	1088.00	
4	1350	5400.00	4.00	5400.00	
8	1526.4	12211.00	8.00	12211.00	
4	311.575	1246.00	4.00	1246.00	
183.60	827.86	151995.00	183.60	151995.00	
550.80	200.34	110347.00	550.80	110347.00	
1632.00	278.78	454968.00	1632.00	454968.00	
800.00	196.1	156880.00	800.00	156880.00	
550.80	80.56	44372.00	550.80	44372.00	
73.44	5159.02	378878.00	73.44	378878.00	

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35	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)(Page No. 18.tem No.4.49.1,PW,P & IWTD SR 2016-17)	Cum	-	-
36	Erection of pumping machineries PRE SR 12-13 pg 51/10.3.20	No's	-	-
37	KPTCL Deposit charges	No's	-	-
38	Borewell registration charges per Rs 1000 each for BWSSB	No's	-	-
39	Providing and fixing benches	No's	-	-
			Part-1+Part-2+Part-3	
			KRIDL Charges	
			Grand	

CERTIFICATE :

It is Certified that the Contractor has completed the work satisfactorly

He has removed the debries from work spot

Quality Control Test Report and Photo graphs are enclosed along with bills

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146.88	6231.74	915317.00	146.88	915317.00	
4	900	3600.00	4.00	3600.00	
-	-	-	-	-	
-	-	160000=00	-	-	
50	920=00	460000.00	-	460000.00	
		4960717.21	4960f24=00	4960717.21	4960f24=00
3 Sub Total		8938635.69	8938951=00	8938635.69	8938951=00
10+1%		983249.93	983285=00	983249.93	983285=00
Total		9921885.62		9921885.62	9922236=00

9922236=00

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಣಸವಾಡಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಮೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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